



Name _____ Date _____

Concept Covered: The Animal Cell

Directions: Label the parts of the animal cell.



cell membrane	1	vacuole	8
golgi apparatus	3	chromosomes	9
ribosomes	5	lysosome	10
rough ER	4	mitochondria	11
nucleolus	6	smooth ER	12
nucleus	7	cytoplasm	13
animal membrane	14	centrioles	14



Name John

Date July 17

Concept Covered: Surface Area to Volume Ratio

Determine the surface area to volume ratio of the two "cells" seen below.



What is the volume of cell A? (volume = $L \times W \times H$)

$$V = (2\text{ cm})(2\text{ cm})(2\text{ cm}) = 8\text{ cm}^3$$

What is the surface area of cell A? (surface area = $6L \times W$)

$$SA = 6(2\text{ cm} \times 2\text{ cm}) = 24\text{ cm}^2$$

What is the surface area to volume ratio of cell A?

$$\frac{SA}{V} = 3:1 \text{ ratio}$$

What is the volume of cell B?

$$V = (3\text{ cm})(3\text{ cm})(3\text{ cm}) = 27\text{ cm}^3$$

What is the surface area of cell B? (surface area = $6L \times W$)

$$SA = 6(3\text{ cm} \times 3\text{ cm}) = 54\text{ cm}^2$$

What is the surface area to volume ratio of cell B?

$$\frac{SA}{V} = 2:1 \text{ ratio}$$

What happens to the surface area to volume ratio as the cell increases in size? it decreases

How does this affect the cell's ability to get nutrients and get rid of wastes? if the surface area to volume ratio is too small, the cell cannot get needed materials

What does a cell do to make sure that it does not grow too big? cell division

Science Notebook Biology Answer Guide

Jessica J Manson



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